

# TURCK



## Inductive Sensors - Rectangular

**Q12**




### Rectangular Sensors, Plastic

*Plastic Housing with Potted-In Cable or Quick Disconnect*

3-Wire DC   **eurofast**<sup>®</sup>  
 10-30 VDC, Short-Circuit and Overload Protected  
 Normally Open, NPN (Sinking) or PNP (Sourcing)

### Sensor Selection

Part Number	Embeddable	Rated Operating Distance (mm)	Housing Height (mm)	NPN (Sinking)	PNP (Sourcing)	Drawing #	Wiring Diagram	# of LEDs	Weld Field Immune (S34)	Switching Frequency (Hz)	ID Number	Connection
Bi 2-Q12-AN6X Ni 4-Q12-AN6X	•	2.0 4.0	12 12	• •		1 1	A A	1 1		2000 2000	M1619300 M1619400	2 meter cable, PVC jacket
Bi 2-Q12-AP6X Ni 4-Q12-AP6X	•	2.0 4.0	12 12		• •	1 1	B B	1 1		2000 2000	M1609300 M1609400	
Bi 2-Q12-AN6X-H1141 Ni 4-Q12-AN6X-H1141	•	2.0 4.0	12 12	• •		2 2	C C	1 1		2000 2000	M1619000 M1619100	 <b>Mating Cordsets</b> RKK 4T-2 (2 meter) For other styles see <a href="#">Section H</a> or consult "Cordsets" catalog
Bi 2-Q12-AP6X-H1141 Ni 4-Q12-AP6X-H1141	•	2.0 4.0	12 12		• •	2 2	D D	1 1		2000 2000	M1609000 M1609100	

### Cable/Conductor

Cable: PVC Jacket; 2 meter standard length  
 Copper Conductor: 24 AWG (PVC insulated)

### Material

Housing: PBT-GF30-VO Plastic  
 Connector: PBT-GF30-VO/PA Plastic  
 End Cap: PBT-GF30-VO Plastic

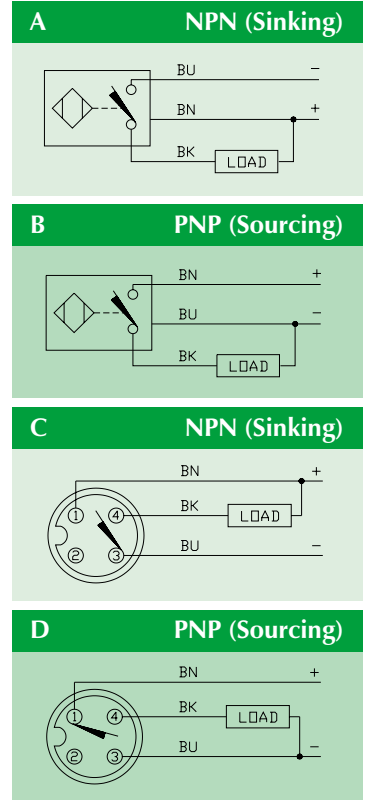
### Accessories

[Accessories and mounting devices can be found in Section J.](#)

## Specifications

Ripple . . . . .	≤10%
Differential Travel (Hysteresis) . . . . .	3-15% (5% typical)
Voltage Drop Across Conducting Sensor . . . . .	≤1.8 V at 200 mA
Trigger Current for Overload Protection . . . . .	≥220 mA
Continuous Load Current . . . . .	≤200 mA
Off-State (Leakage) Current . . . . .	<10 μA
No-Load Current . . . . .	5.5-9.5 mA
Time Delay Before Availability . . . . .	≤8 ms
Power-On Effect . . . . .	Per IEC 947-5-2
Reverse Polarity Protection . . . . .	Incorporated
Wire-Break Protection . . . . .	Incorporated
Transient Protection . . . . .	Per EN 60947-5-2
Operating Temperature . . . . .	-25°C to +70°C (-13°F to +158°F)
Enclosure . . . . .	Meets NEMA 1,3,4,6,13 and IEC IP 67
Shock . . . . .	30 g, 11 ms
Vibration . . . . .	55 Hz, 1 mm Amplitude in all 3 Planes
Repeatability . . . . .	≤2% of Rated Operating Distance
LED On . . . . .	Output Energized

## Wiring Diagrams



Rectangular

## Dimensions

